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Claims PTO

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AMW

1. A recording and reproduction apparatus comprising:  
a recording and reproduction control means of controlling recording in and reproduction from a main data recording region of a recording medium which has said main data recording region;  
a command reception means of receiving both raw access commands and non-raw access commands; and  
an authentication means of judging whether or not the command issuing origin should be authenticated based on the types of said received commands and of authenticating said command issuing origin according to the judgment result, wherein  
said recording and reproduction control means is decides to carry out said received commands in the case that it is not necessary to authenticate said command issuing origin and in the case that said command issuing origin is authenticated and this authentication has succeeded.
2. A recording and reproduction apparatus according to Claim 1, characterized in that said main data are AV data.
3. A recording and reproduction apparatus according to Claim 1, characterized in that said main data are AV data and data added to the AV data.
4. A recording and reproduction apparatus according to any of Claims 1 to 3, characterized in that the types of said commands are either raw access commands or non-raw access commands and said authentication means judges that

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authentication should be performed in the case that the types of said received commands are raw access commands and that authentication is not necessary in the case that the types of said received commands are non-raw access commands.

5. A recording and reproduction apparatus according to Claim 4, characterized in that:

said main data recording region has a first region that can be accessed by both said commands and a second region that can be accessed only by said non-raw access commands;

the types of said commands are either commands that access said first region or commands that access said second region; and

said authentication means judges whether or not authentication should be performed according to the type of said commands in the case that said received commands are raw access commands.

6. A recording and reproduction apparatus according to any of Claims 1 to 3, characterized in that:

the types of said commands are write commands of raw access commands, read commands of raw access commands or non-raw access commands; and

said authentication means judges that authentication should be performed in the case that the types of said received commands are write commands of raw access commands and that authentication is not necessary in the case that the types of

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said received commands are said raw access commands and are read commands as well as in the case that the types of said received commands are non-raw access commands.

7. A recording and reproduction apparatus according to any of Claims 1 to 3, characterized in that:

said main data recording region has a data region which records said main data and a management region which manages said recorded main data;

the types of said commands are either commands which access said data region or commands which access said management region; and

said authentication means judges that authentication should be performed in the case that the types of said received commands are commands which access said management region and that authentication is not necessary in the case that the types of said received commands are commands which access said data region.

1           8. (Amended) A medium which carries a program and/or data for  
2     implementing, by a computer, all of, or a part of, the functions of all of, or a part  
3     of, the means of a recording and reproduction apparatus according to any of  
4     Claims 1 to 3 and which is characterized by being able to be processed by a  
5     computer.

1           9. (Amended) An information assembly characterized by being a  
2     program and/or data for implementing, by a computer, all of, or a part of, the  
3     functions of all of, or a part of, the means of a recording and reproduction  
4     apparatus according to any of Claims 1 to 3.

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1           10.   (Newly Added) In a recording and reproduction apparatus receiving  
2   an access command from an external device, the access command being one of a  
3   raw access command and a non-raw access command, and the raw access  
4   command including one of read data and write data,

5           a method of controlling access to a data storage region in the recording and  
6   reproduction apparatus comprising the steps of:

7           (a) receiving an access command from the external device; (b) determining  
8   if the access command is a raw access command of read data;

9           (c) if step (b) determines that the access command is a raw access command  
10   of read data, permitting access to the external device which issued the raw access  
11   command;

12           (d) if step (b) determines that the access command is a raw access  
13   command of write data, performing the following steps:

14                   (i) authenticating the external device which issued the  
15                   raw access command; and

16                   (ii) permitting access to the data storage region after  
17                   authenticating the external device.

1           11.   (Newly Added) The method of claim 10 further including the  
2   steps of:

3           (e) partitioning the data storage region into at least first and second data  
4   storage regions; and

5           (f) allocating the first data storage region for access by only a device  
6   transmitting a non-raw access command, and allocating the second data storage  
7   region for access by a device transmitting a raw access command; and

8           step (d)(ii) includes permitting access to the second data storage region if  
9   the raw access command is write data to the second data storage region, and  
10   prohibiting access to the first data storage region if the raw access command is  
11   write data to the first data storage region.

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